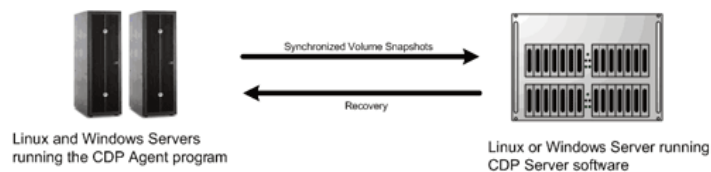


## R1Soft Continuous Data Protection for Linux and Windows Systems

R1Soft CDP Solution is a server software application that enables disk-based data protection and recovery for servers and workstations running Microsoft Windows and Linux operating systems. CDP Server protects disk volume data using replication and synchronization over the network storing point-in-time snapshots in disk-based storage.



CDP Server works by reading your hard disk volumes **at the sector level, bypassing the file system for the ultimate in performance and recovery.**

This disk sector synchronization is performed while the server is online and provides no interruption to other I/O requests even on a busy server. By reading the disk at the lowest possible level point-in-time recovery images contain your files and all the formatting, partition tables, and volume configuration needed for complete and instant disaster recovery.

### The Data Protection Process

Scheduled point-in-time volume snapshots are scheduled on the CDP Server. The CDP server then periodically connects to the CDP Agent program and synchronizes changed disk sectors to the CDP Server. The CDP Server creates a new point-in-time image of the disk volume every time it connects to the agent for synchronization. The point-in-time images are called recovery points and are stored in what Righteous calls a Disk Safe.

**Recovery points only consist of a copy of changed disk sectors.**

This means it usually only takes seconds or minutes to complete disk synchronization even on very large volumes. The more frequently recovery points are scheduled the quicker they complete. When compression is enabled hundreds of recovery points can be stored in less space than it takes to store one disk image.

In between synchronization requests from the CDP Server, the CDP Agent passively tracks changes to the hard disks as they are happening.

This process introduces NO overhead and requires a relatively small amount of memory. This is typically about 6 MB of memory per 100 GB of disk storage being synchronized.

## R1Soft CDP Server Software Key Benefits

### Bare-Metal Disaster Recovery

Restore servers directly from disk-based backup. Unlike traditional backup software, there is NO need to first partition your drive and install the operating system.

### High Performance

Sector based backups increase throughput and reduce overhead. Servers can be fully operational with minimal performance impact during backups. Backups can usually be performed at anytime, even on busy servers.

### Open File Backups

R1Soft is a total solution including built-in support for backing up open files. NO 3rd party software is required.

### Near Continuous Data Protection

During normal host operation, the R1Soft CDP Agent keeps a journal of disk changes. Incremental backups know what sectors on the disk have changed before the backup operation even starts. This eliminates the need for file-by-file or block-by-block comparisons every backup.

### Small Backup Windows

Only changed disk sectors are copied between backups. Incremental backups can now be completed in minutes.

### End-to-end strong encryption

Data is continuously encrypted while in storage and during network transmission using RSA keys. Decryption during a restore is only possible when the encryption key holder enters their pass phrase.

### Disk Safe Repair

If there is a crash or unclean shutdown next time you try and use the Disk Safe it will detect the unclean shutdown and quickly heal itself.

### Run and Configure Simultaneous Backup Tasks

### Remote Administration

Software can be completely controlled offsite using a web-based interface.

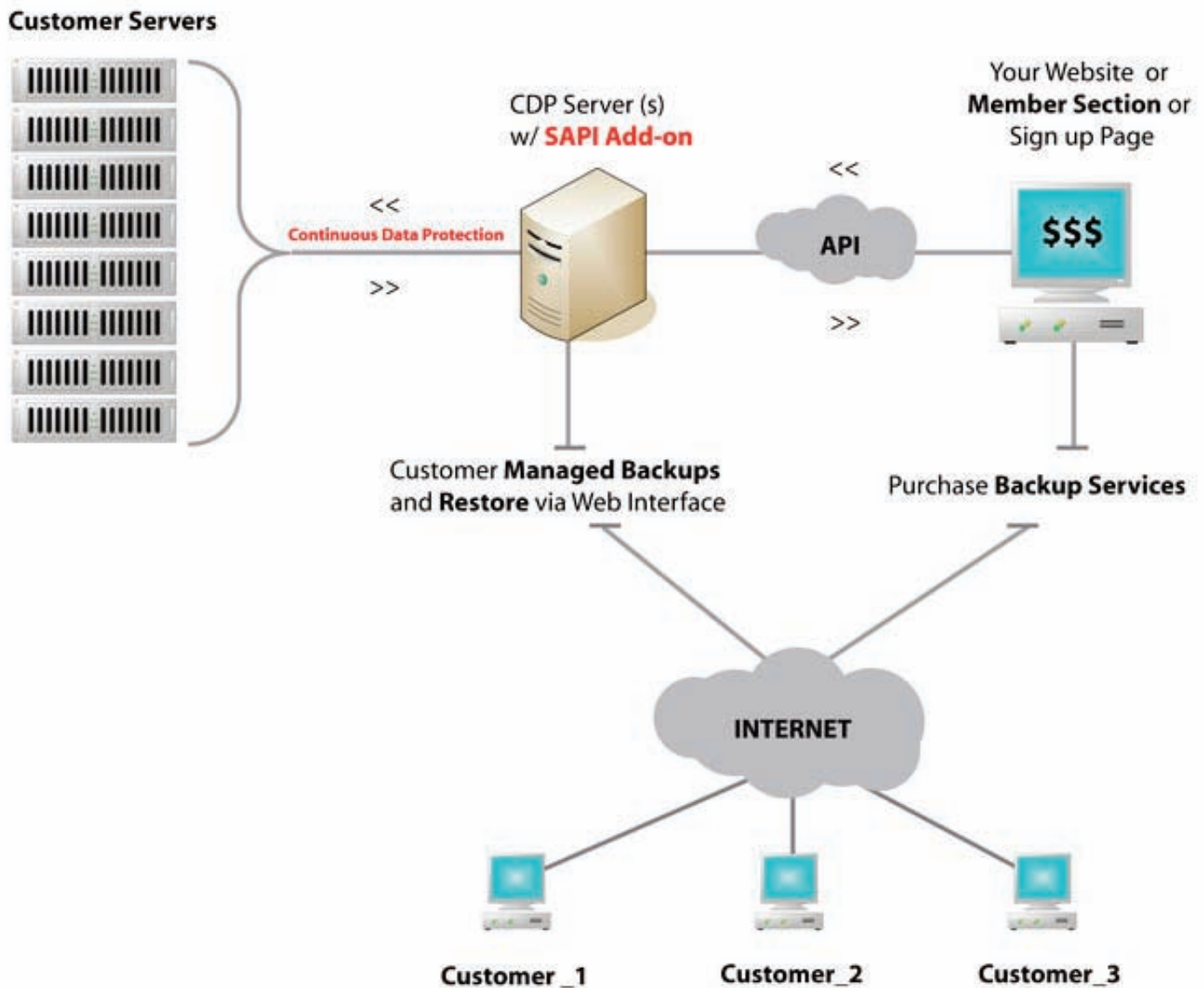
### Linux ReiserFS Support near Continuous Data Protection for VMWare Email Reporting and More

For more information on R1Soft CDP Server , please call  
1 + 800.956.6198 or [sales@r1soft.com](mailto:sales@r1soft.com) | [www.r1soft.com](http://www.r1soft.com)

## Service Provider API (SAPI)

The SAPI (Service Provider API) exposes a set of XML-RPC functions that service providers can call from their billing or provisioning systems.

For example the SAPI can be used to provision backup service, change passwords for a user, and control backup quota space.



# Continuous Data Protection®

## The Future of Data Centers

Can your backup software do this?	R1Soft CDP Server	Acronis® True Image	Evault®
Daily Backups	✓	✓	If you're Lucky
Hourly Backups	✓	Not Supported	Not Supported
Open File Backups	✓	✓	Not Supported
Bare-Metal Restore	✓	✓	Not Supported
Continuous Data Protection	✓	Not Supported	Not Supported
Restore Linux LVM	✓	Not Supported	Not Supported
Restore Linux Software RAID	✓	Not Supported	Not Supported
Easy To Reseler Web Interface	✓	Not Supported	Not Supported
Manage Thousands of Servers	✓	Not Supported	✓
Control Panel Integration	✓	Not Supported	Not Supported
	<b>\$80 - \$100 /server</b>	<b>\$699 /server</b>	<b>You Can't Afford It</b>

**(NEW) - CDP for MySQL add-on Now available** | True-Granular Restore™ | Store over 50 recovery points per-day  
Bare-Metal Restore for MySQL Servers | Restore tables or databases to original or alternate locations and more..

**Data Centers serious about uptime and performance use R1Soft.**

For more information visit: [www.r1soft.com](http://www.r1soft.com) or call us at **800-956-6198**



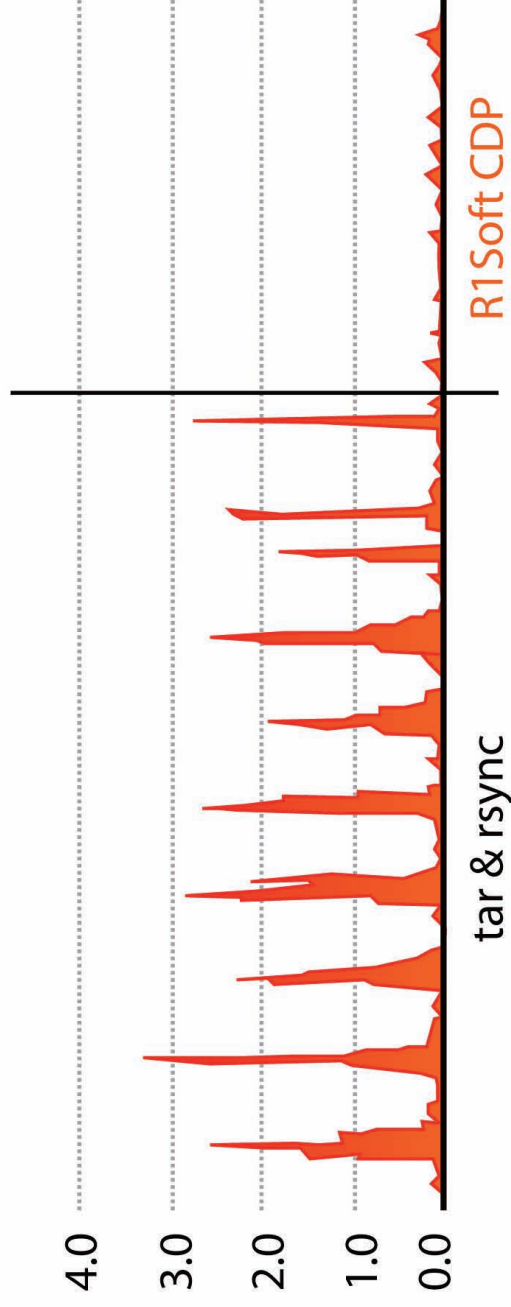
**R1Soft**  
Continuous Data Protection®  
For **LINUX & WINDOWS**

# Server Load

## Nightly MySQL Backup using ( tar & rsync) - VS - R1Soft

Server Load Avg. Dropped from 3.0 to 0.0

Processing in the run queue



Week 19

# Near Continuous Data Protection and True Granular Restore for MySQL Databases

Reduce Data Protection Headaches with **R1Soft CDP for MySQL**

Get the fast, easy and affordable data protection you've always wanted. R1Soft CDP for MySQL provides you with the first high performance near Continuous Data Protection as well as True Granular Restore for MySQL DataBases. Restore to alternate locations, Zero Server interruptions, maximum protection and Unlimited Scalability.

Its your MySQL Hot Backup really hot?	R1Soft CDP for MySQL	Zmanda	MySQL Hot Backups	INNOBASE (Oracle) Hot Backups
near-Continuous Online Backups for MySQL servers	✓			
Database and Table level recovery with True-Granular Restore™ for MySQL	✓			
MyISAM Hot Backups	✓	✓	Good Luck!	
Restore any combination of tables or databases to original or alternate locations	✓			
Bare-Metal Restore for MySQL Servers	✓			
Only changed disk sectors are read from disk during each scheduled synchronization	✓			
Zero transaction loss and Downtime during the backups	✓	✓		✓
InnoDB Hot Backups	✓			✓
Easy to use Web Interface	✓	✓		

**Data Centers serious about uptime, performance and scalability use R1Soft.**

For more information visit: [www.r1soft.com](http://www.r1soft.com) or call us at 800 956-6198

